This Manual Must Always be Available to the Stove Operator

Euroheat
Natural Energy Company

Operating Instructions

Pico

Wood Pellet Burning Stoves

IN1230 Edition 1 June **2011**

PART NUMBER

SERIAL NUMBER

RIKA®

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IMPORTANT

- The installation of this appliance must comply with all local regulations, including those referring to National and European Standards before it can be operated. The stove is not suitable for a shared flue.

- Improper adjustment, alteration, maintenance or the fitting of replacement parts not recommended by the manufacturer can cause injury or property damage. Do not operate the stove with faulty seals or damaged glass.

- Ensure all manuals are kept safely and are available for the user at all times.

- Do not store or use petrol or other flammable vapours and liquids in the vicinity of this or any other heating appliance. Do not use aerosol sprays near the stove when the stove is alight. Do not burn anything but approved wood pellets on this appliance.

- Due to the high operating temperatures of this appliance it should be located away from pedestrian traffic and away from furniture and draperies. Do not store paper or wood near the appliance. Any mats or rugs put in front of the stove should be fire proof and secured to prevent the possibility of tripping.

- Advise all persons as to the stove's high surface temperatures, including visitors. If it is possible for children or infirm adults to come into contact with the stove, fit a suitable fire guard. Never let children "help" with the stove in any way, even when the stove is cold.

- It is imperative that all air passageways into, out of, and within the appliance are kept clean. All permanent ventilation into the room provided for the stove must remain clear and unobstructed at all times. Consideration must be given to the need for extra ventilation if another heating source needing air is to be operated simultaneously. If an extraction fan is proposed to be fitted to a connecting area of the house, after the stove has been installed, professional advice should be sought from a qualified engineer.

- If a flue blockage or adverse weather conditions cause the appliance to emit smoke, do not treat it as merely a nuisance, this smoke will indicate that carbon monoxide is being emitted into the room. Properly installed, operated and maintained this applinace will not emit fumes into the dwelling.

  WARNING: If fume emissions persist the following immediate action should be taken:
  Turn the stove off, on the control panel, open windows to ventilate the room and leave the premises and allow the appliance to go out before closing the windows. Do not re-light the stove without consulting a qualified engineer.
  Your installing engineer should have fitted a CO alarm in the same room as the stove. If the alarm sounds unexpectedly, follow the instructions in the above paragraph.

- In the event of a chimney fire the stove should be turned to off and the fire brigade informed. Do not re-light the stove until the complete installation has been inspected by a qualified engineer.

- The appliance should be inspected and cleaned regularly and the chimney cleaned at least annually. More frequent cleaning may be required and the advice of a qualified chimney sweep should be sought. Always check for any flue blockage before lighting the appliance after a prolonged shut down.

This appliance has been carefully designed and constructed to give clean burning with optimum efficiency and safety, but as with all heating appliances these standards will not be achieved unless it is installed and maintained regularly by qualified engineers. It must also be operated strictly with the procedures given in this manual.

If you are unsure about anything concerning your stove please seek professional advice.

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The Model Range Explained

Thank you for purchasing your stove and helping to protect our environment. RIKA and Euroheat insist on progressive development to produce products which are market leading. Our aims are to produce stoves with the latest innovations, user friendly operation and high efficiency for lower cost operation.

This operating manual offers user information for the Pico pellet stoves.

Model Identification

You will see on the front page of this document a label which confirms which model you have. This label also advises you of the stoves unique serial number. This information is also attached to your stove for reference.

Important

Please ensure the warranty registration form is returned to Euroheat. In this way the model and its history will be recorded for reference in the future.

Euroheat
Natural Energy Company

Stoves supplied through Euroheat authorized retailers.
For England, Wales, Scotland and Northern Ireland

Euroheat Distributors (H.B.S). Ltd.
Unit 2,
Court Farm Business Park,
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Worcestershire. WR6 5AY.

www.euroheat.co.uk

info@euroheat.co.uk

Whilst we are always happy to assist you, please make sure you have read this manual before requesting support. First contact your supplying retailer. If you find this not successful contact the Euroheat Technical Support Team.
Technical support telephone number 01885 491117. E-mail tech@euroheat.co.uk. Before telephoning ensure you have your stove's serial number to hand. This can be found on the front of either the operating, installation, warranty registration, or on the stove identification label.

Euroheat unfortunately are unable to offer support for appliances which were not supplied by Euroheat.

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TECHNICAL SPECIFICATION	
Dimensions (mm) and weights (kg)	
Height	1008
Width	495
Depth of the body	508
Weight with steel casing panel	105
Weight with stone casing panel	109
Weight with ceramic casing panel	111
Flue tube outlet diameter	100
Heating capacity range	2.4-9 kW
Room heating capacity (m3) depended on the house insulation	50-240
Fuel consumption	Up to 2.2 kg/h
Pellet container capacity	26 kg
Mains supply	230V/50Hz
Average electric power consuption	< 100 W
Fuse	2.5 delay action
Efficiency (net)/(gross) %	92.1/84.6
CO2 content	11.1 %
CO emission (at 13% O)	34 mg/Nm3
Dust emissions	22 mg/Nm3
Exhaust gas mass flow	6.45 g/s
Exhaust gas temperature	144 °C
Flue draught requirement	0 PA

THE CLEAN AIR ACT 1993 AND SMOKE CONTROL AREAS

Under the Clean Air Act 1993 local authorities may declare the whole or part of the district of the authority to be a smoke control area. It is an offence to emit smoke from a chimney of a building, from a furnace or from any fixed boiler if located in a designated smoke control area. It is also an offence to acquire an “unauthorised fuel” for use within a smoke control area unless it is used in an “exempt” appliance (“exempted” from the controls which generally apply in the smoke control area).

The Secretary of State for Environment, Food and Rural Affairs has powers under the Act to authorise smokeless fuels or exempt appliances for use in smoke control areas in England. In Scotland and Wales this power rests with Ministers in the devolved administrations for those countries. Separate legislation, the Clean Air (Northern Ireland) Order 1981, applies in Northern Ireland. Therefore it is a requirement that fuels burnt or obtained for use in smoke control areas have been “authorised” in Regulations and that appliances used to burn solid fuel in those areas (other than “authorised” fuels) have been exempted by an Order made and signed by the Secretary of State or Minister in the devolved administrations.
Further information on the requirements of the
Clean Air Act can be found here: http://smokecontrol.defra.gov.uk/

Your local authority is responsible for implementing the Clean Air Act 1993 including designation and supervision of smoke control areas and you can contact them for details of Clean Air Act requirements.

The Pico pellet fuelled appliance has been assessed and is suitable for use in smoke control areas when burning 6mm wood pellets and when operated in accordance with these operating instructions.

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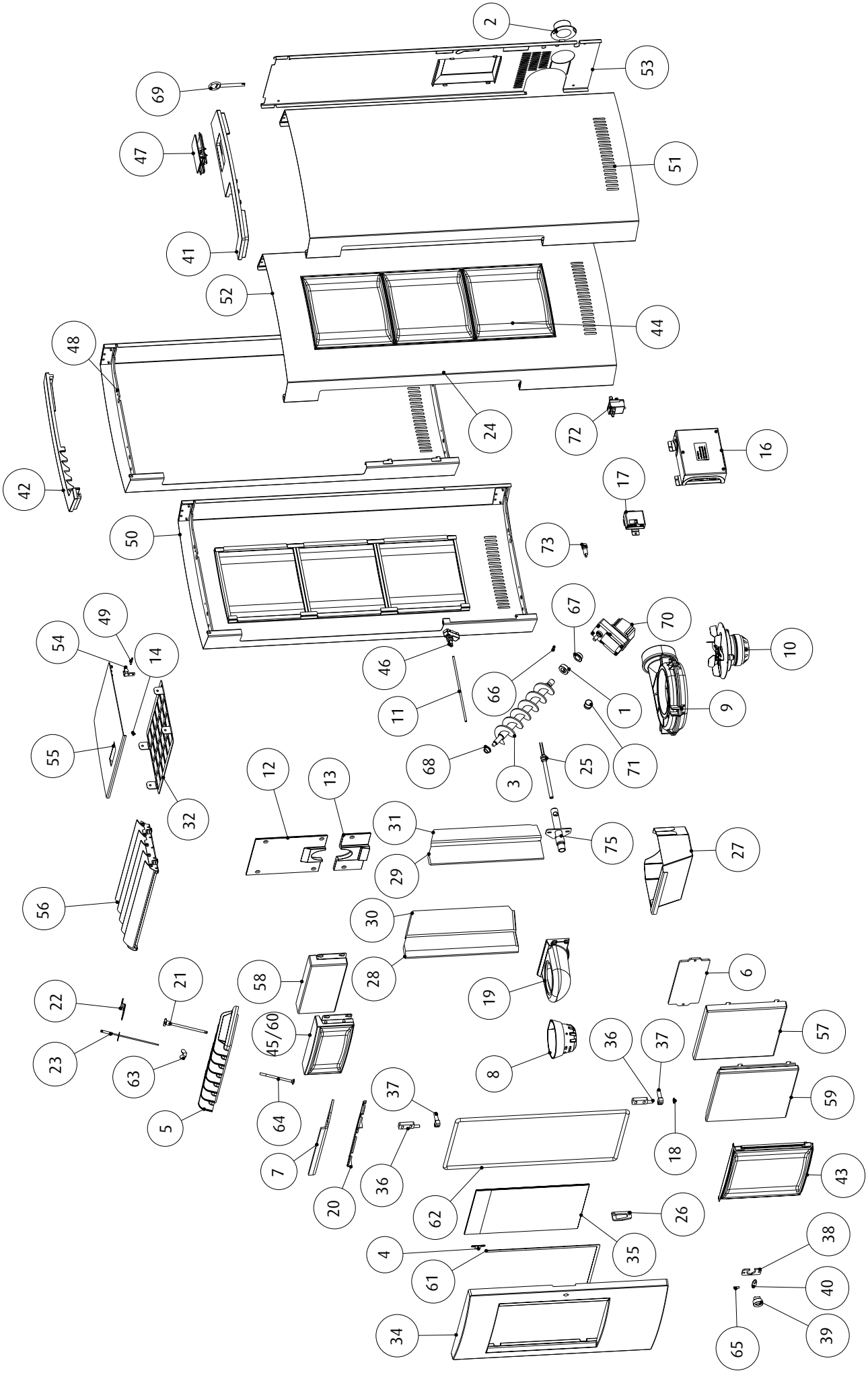
Spare Parts Overview



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Spare parts overview; continued

No.	Description	Part No.
1	Clamping ring	RK Z11915
2	Air intake	RK Z18278
3	Screw	RK B12301
4	Glass retainer	RK L00475
5	Combustion chamber cover, Grey	RK B16321
	Combustion chamber cover, Black	RK B16052
6	Cleaning opening, Grey	RK Z32422
	Cleaning opening, Black	RK Z33880
7	Flue plate	RK L01881
8	Recess	RK Z32345
9	Induced draft fan housing	RK B16155
10	Induced draft fan motor	RK 111581
	Induced draft fan cpl.	RK B15913
11	Actuating rod	RK Z32910
12	Cast rear panel, top, Grey	RK Z33841
	Cast rear panel, top, Black	RK Z33908
13	Cast rear panel, bottom, Grey	RK Z33842
	Cast rear panel, bottom, Black	RK Z33907
14	Rubber stop for container	RK 111647
15	HP bracket	RK B15781
16	Motherboard C2 air assembly	RK B15856
17	Auxiliary board	RK B16030
18	Door support	RK L01413
19	Cavity holder cpl. Grey	RK B16473
	Cavity holder cpl. Black	RK B16474
20	Support plate for combustion chamber lining	RK Z33803
21	Sensor tube	RK B16053
22	Pressure bracket	RK L01441
23	Temperature sensor	RK B16114
24	Grommet	RK 111730
25	Ignition cartridge	RK Z34113
26	Locking shackle	RK L01882
27	Ash tray	RK L01891
28	Inner lining, front left	RK Z34333
29	Inner lining, front right	RK Z34334
30	Inner lining, rear left	RK Z34335
31	Inner lining, rear right	RK Z34336
32	Safety guard	RK L01884
34	Combustion chamber door cpl.Grey	RK B16480
	Combustion chamber door cpl.Black	RK B16479
	Combustion chamber door, Grey	RK Z34301
	Combustion chamber door, Black	RK Z34298
35	Combustion chamber door glass	RK Z33701
36	Hinge plate	RK L01894
37	Hinge	RK Z34345
38	Locking plate	RK L01893

No.	Description	Part No.
39	Locking bolt	RK Z34353
40	Locking tongue	RK L01892
41	Cast cover, right, metallic grey	RK Z34354
	Cast cover, right, black	RK Z34355
42	Cast cover, left, metallic grey	RK Z34356
	Cast cover, left, black	RK Z34357
43	Ceramic front, bottom, cpl.	
44	Ceramic side left/right	
45	Ceramic front, top, cpl.	
46	Door contact switch	RK 111825
47	Control panel	RK B16484
48	Casing, left cpl., metallic grey	RK LB00487
	Casing, left cpl., black	RK LB00486
49	Hinge pin	RK Z34346
50	Casing, left cpl., ceramic	
51	Casing, right cpl., grey	RK LB00489
	Casing, right cpl., black	RK LB00488
52	Casing, right cpl., ceramic	
53	Rear panel cpl., metallic grey	RK LB00485
	Rear panel cpl., black	RK LB00484
54	Hinge for container cover	RK L01888
55	Container cover, metallic grey	RK B16477
	Container cover, black	RK B16476
56	Convection fins	RK B16483
57	Steel casing, bottom	RK Z34358
58	Steel casing, top	RK Z34416
59	Soapstone casing, bottom, cpl. grey	RK B16520
	Soapstone casing, bottom,cpl. black	RK B16493
60	Soapstone casing, top, cpl. grey	RK B16519
	Soapstone casing, top, cpl. black	RK B16492
61	Flat sealing strip 8x2, selfadhesive	RK 103693
62	Round sealing strip D10	RK 100476
63	Wing nut	RK 108306
64	Torband screw	RK 111511
65	Setscrew M05	RK 111803
66	Setscrew M06	RK 111058
67	Sintered bearing Di16	RK 102688
68	Sintered bearing Di10	RK 108310
69	Door handle key	RK 111576
70	Screw motor, stepless	RK 111728
71	C-Sensor	RK B16417
72	Safety temperature limiter	RK 111586
73	Fuse holder	RK 107887
	Harness	RK B16058
	Adapter cable induced draught blower	RK B15981

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General Warning and Safety Information

Observance of the introductory general warning information is imperative.

Read the entire manual thoroughly prior to putting the stove into operation.

Only approved transport equipment with sufficient load carrying capacity may be used with your heating appliance.

The burning of fuel releases heat energy that leads to extensive heating of the stove surfaces, doors, door and operating handles, glass, flue pipes and possibly the front wall. Refrain from touching these parts without appropriate protective clothing or equipment e.g. heat-resistant gloves or means of operation (operating handle).

Make your children aware of this particular danger and keep them away from the stove during heating, fit a suitable fire guard where required.

Placing non-heat resistant objects on the stove or near it is prohibited.

Do not place clothing on the stove to dry.

Stands for drying clothes etc. must be placed at a sufficient distance to the stove – FIRE HAZARD.

When your stove is burning, the use of highly inflammable and explosive materials in the same or adjacent rooms is prohibited.

ATTENTION
In cause of safety reason please do not open the combustion chamber door during operation.

CAUTION when filling the supply container.

The pellet container opening is sufficient to ensure easy filling. Take great care that no pellets drop onto the convection fins and the hot stove body.

This may lead to severe smoke development.

We recommend to fill the pellet container only when the stove is cold.

What are Pellets ?

Wood pellets are a standardised fuel. Every manufacturer must adhere to certain conditions in order to enable flawless, energy-efficient heating. Pellets are made from wooden waste, from sawmills and planning workshops, as well as from residue from forestry operations. These "starting products" are crushed, dried, and pressed into Pellet "Fuel" without any bonding agent.

ENplus – Pellets

This new standard for pellets sets a new benchmarks in the European pellet market. The traceability of pellets is ensured thanks to the use of identification numbers. The pellet manufacturers' production facilities and manufacturing processes are reviewed every year. A quality assurance system ensures the pellets comply with the requirements of the new standard and that the conditions for trouble-free heating are guaranteed.

Wood Pellet Specification according to ENplus – A1

Parameter	Unit	ENplus-A1
Diameter	mm	6 (±1) (2)
Length	mm	3.15 to 40 (3)
Bulk density	kg/m³	≥ 600
Calorific value	MJ/kg	≥ 16.5
Water content	Ma.-%	≤ 10
Fine fraction (< 3.15 mm)	Ma.-%	≤ 1
Mechanical rigidity	Ma.-%	≥ 97.5 (4)
Ash content	Ma.-% (1)	≤ 0.7
Ash softening temperature	(DT) °C	≥ 1200
Chlorine content	Ma.-% (1)	≤ 0.02
Sulphur content	Ma.-% (1)	≤ 0.03
Nitrogen content	Ma.-% (1)	≤ 0.3
Copper content	mg/kg (1)	≤ 10
Chrome content	mg/kg (1)	≤ 10
Arsenic content	mg/kg (1)	≤ 1
Cadmium content	mg/kg (1)	≤ 0.5
Mercury content	mg/kg (1)	≤ 0.1
Lead content	mg/kg (1)	≤ 10
Nickel content	mg/kg (1)	≤ 10
Zinc content	mg/kg (1)	≤ 100

(1) in an anhydrous state
(2) Diameter must be specified
(3) a maximum of 1% of the pellets may be longer than 40 mm; max. length is 45 mm
(4) The limit value of ≥ 97.7 Ma.-% applies when conducting measurements with a Lignotester (internal control)

Pellet Storage

In order to guarantee problem free burning of the wood pellets, it is imperative to store the fuel as dry as possible and free from impurities. Pellets should not be kept in sacks outdoors or stored in a manner where they are exposed to the environment. This can lead to blockages in the screw conveyor - "screw stoppers" are excluded from the warranty.

Note: Waste and liquids may not be burnt in the stove.

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Technology

Your new pellet stove is technologically advanced as a result of years of tests in the laboratory and in practice. The practical advantages of your pellet stove are convincing:

Operating Comfort – Operational Reliability

The electronic monitoring device together with a combustion temperature monitoring device controls and regulates the interplay of the flue gas fan, conveyor auger and temperature. This monitoring system guarantees an optimum combustion and operating mode. Your operating outlay is reduced to the most necessary - this prevents operating faults whilst working in an optimum fashion at the same time.

The flame and drive motor noises permissible for the living space are therefore audible during operation.

Highest Efficiency – Lowest Emissions

A very large heat exchanger surface together with optimum combustion air control leads to very good fuel usage.
Finely metered pellet feed in an optimised burner pot made from high quality grey cast iron effects almost perfect combustion with very good exhaust gas values - and this is guaranteed in every operating phase.

Automatic Safety Function

Power Failure (during heating operation)

After a power failure the operating functions that were set before the power failure are continued.
After a brief power failure, the operating functions set prior to the failure are continued. If the power failure lasts longer, the stove goes to start phase (display START) as long as sufficient temperature or embers are present. If the power failure lasts too long, the stove goes to STOP phase (display STOP – lasts approx. 10 minutes). Re-start is then performed automatically (display IGNIT).

Power Failure (during the start phase)

The start procedure is continued after a brief power failure. If the power failure lasts longer and there are no embers available, then the stove goes to STOP phase. In the STOP phase (display STOP – lasts approx. 10 minutes) only the blower runs to burn off any pellet residues. Re-start is then performed automatically (display IGNIT).

Overheating

A temperature safety switch (STB) switches the stove off automatically if it overheats. After the stove has cooled down the STB must be reset manually. The pellet stove can now be operated manually (or by means of a timer program) and it then goes into the regulating program again.
CAUTION: If overheating has occurred then maintenance or cleaning work must be carried out.

Low Temperature Switch Off

If the stove cools down below a minimum temperature, then the stove will switch off. This switch off can also occur if pre-heating is too late.

Electric Excess-Current Shut Off

The device is protected against excess current by a main fuse (on the rear of the device), (data as per "Technical Specification").

Electrical Connection

The stove is supplied with an approx. 2.5 m long connecting cable with a plug. This cable is to be connected to a 230 Volt, 50 Hz electrical connection. The average electric power consumption is approx 100 watts during heating.

During the automatic ignition process (duration 10 minutes) approx. 350 watts. The connection cable must be laid so that any contact with hot or sharp edged external surfaces on the stove is avoided.

Combustion Air

Each combustion procedure requires oxygen or air. As a rule this combustion air is removed from the living area for individual stoves. The air taken from the living area must be reintroduced. In modern houses, very tight fitting windows and doors mean that too little air flows back. This situation becomes problematic due to additional ventilation in the house (e.g. in the kitchen or WC). Your qualified installing engineer will fit a suitable air brick/vent to ensure that the stove is supplied with enough free air as required by Building Regulations. A fresh air kit can be fitted directly to the stove, which will reduce the chance of draughts but still supply the free air for combustion.

Feed of External Combustion Air (Fresh Air Kit)

Steel, high temperature or aluminium pipes can be used.

Minimum diameter 10 cm/4 inches.

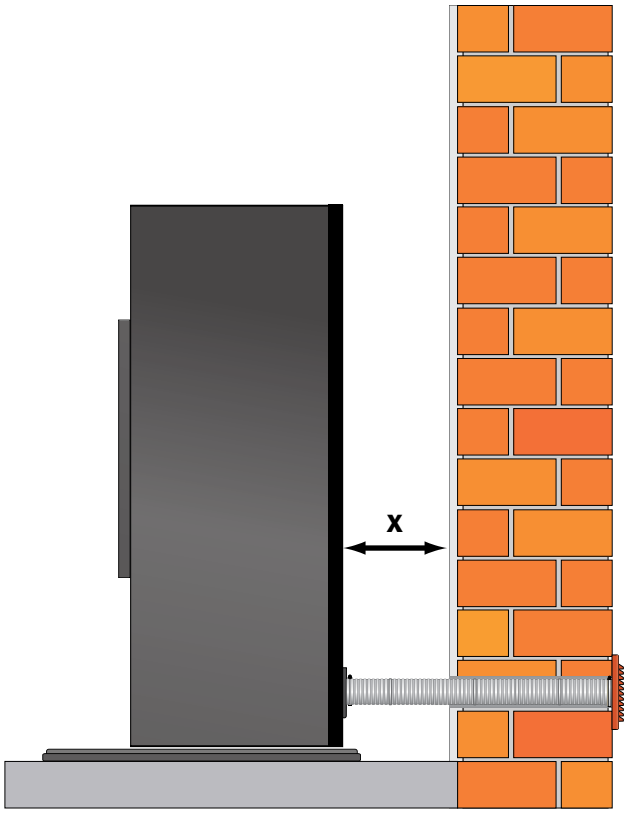
The pipe should not be longer than approx. 4 m to guarantee adequate air feed and not have too many bends.

Should the line lead into the open air, it must end with a windguard (supplied with the fresh air kit).

Make sure the supply air opening does not “ice over” during extremely cold periods (inspection).

Further it is possible to extract the combustion air directly from outside or from another room that is well ventilated (e.g. the cellar).

Should one or more of these conditions not be applicable then usually poor combustion will occur in the stove, as well as a vacuum in the room.



Fresh air vent kit through wall showing minimum access for cleaning “x”

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Disassembly of Panels

CAUTION:
Only work on the stove when the mains plug has been removed from the socket.
During assembly do not drop any items (screws) etc. into the fuel container - they can block the conveyor auger and damage the stove.
Your stove must be switched off and have cooled down before carrying out any work on it.

Disassembly of Steel, Stone and Ceramic Casing Panels

(for part numbers refer to the spare parts overview on pages 6-7)

1. Open the combustion chamber door (part 34).

Fig. 1 – Opening the combustion chamber door

2. Raise the top casing panel slightly (depending on version, part 45/58/60).

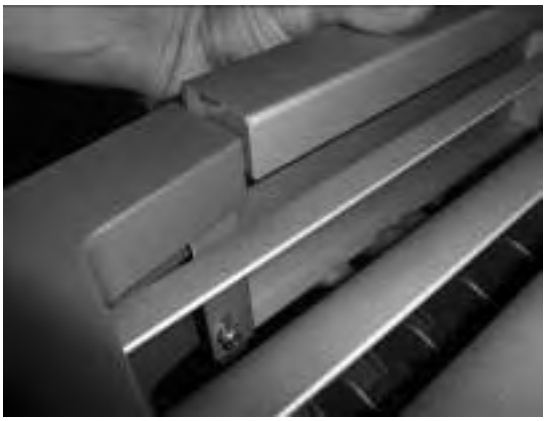

Fig. 2 - Raising the top casing panel

Fig. 3 - Turning the top casing panel

3. Now carefully shift the top casing panel to the rear until the 4 mounting screws are no longer located in the panel. Turn the casing panel carefully under the convection fins (part 56).

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4. Turn the casing panel to the front and pull the panel out from underneath the convection fins.

Place the casing panel on a soft surface.

Fig. 4 - Turning and removing the top casing panel

Fig. 5 - Removing the bottom casing panel

5. Raise the bottom casing panel slightly (depending on version, part 43/57/59) and shift the panel out to the front.

Place the bottom casing panel on a soft surface.

6. Use an appropriate Allen key to undo the front and rear flat head screws which are used to secure the left-hand (part 42) and right-hand casing covers (part 41).

Fig. 6,7 - Loosening the mounting screws

7. When removing the right-hand casing cover pay attention to the control panel wiring. Disconnect the control panel (part 47) before completely removing the right-hand casing cover.

Place both of the casing covers on a soft surface.

Fig. 7 - Control panel wiring

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8. Use an appropriate socket wrench to undo the 4 hexagon bolts which are used to secure the convection fins in place (part 56) and lay the convection fins on a soft surface.

Fig. 8 – Removing the convection fins

9. Use an appropriate socket wrench to undo the remaining 2 hexagon bolts (one in the front, one in the rear) which are used to secure the left and right-hand side casing panels (depending on version, part 48/51 or 50/52), and place the panels on a soft surface.

Re-assemble the casing elements in reverse order.

Exercise extreme caution during disassembly and/or assembly to ensure you do not scratch or damage the casing panels.

Operation

Basic Information

The stove must only be started when fully fitted.

Your pellet stove is exclusively for burning pellets made from wood of a controlled quality. Non-pelletised solid fuels (straw, maize, chopped matter etc.) are not permitted. Failure to adhere to these guidelines will make all guarantee and warranty claims null and void and could have a negative effect on the safety of your stove.

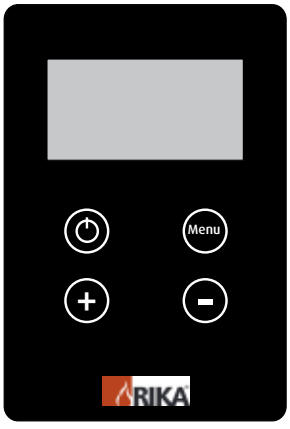
When operated correctly your pellet stove cannot overheat. Improper operation can however shorten the life expectancy of the electric stove components (fan, motors and electric control) and is not permitted.

Control and Internal Control Unit - Function

(Part 47 – pages 6/7)

Your pellet stove is fitted with a modern programmable microprocessor control. The user can preset the individual stove functions via the internal control unit (keypad with operating display) fitted at the top of the right hand stove panel. The control (main board) and the control board may only be altered by trained specialist dealers or the service department. Improper handling of these parts leads to the guarantee and warranty becoming null and void.

Internal Control Unit



All settings and functions can be regulated via this unit.

The display is illuminated when touched. After some seconds the display lighting turns off again.

Over View of Heating Modes

Easy Mode
In the easy mode, the stove is simply switched on and off using the (power) key. The output of the stove can be altered in 5% increments from 30-100%.

Comfort Modes (require connection of Rika room sensor or Rika wireless room sensor).

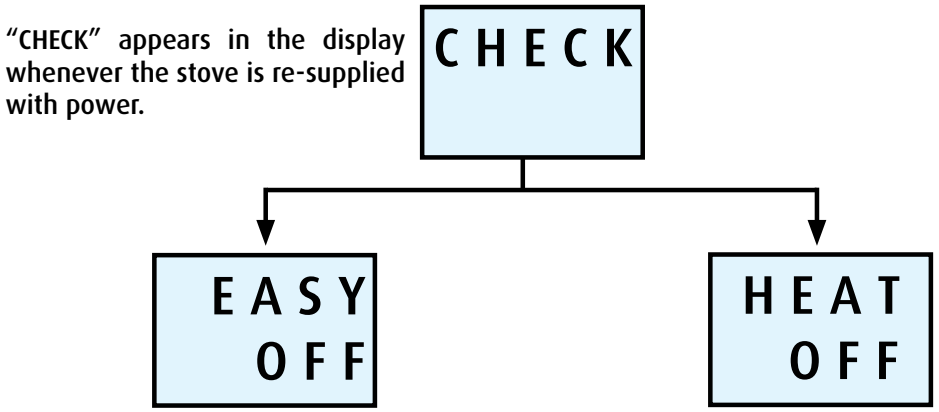
Heat Mode
This mode corresponds to the Easy Mode from basic operation, in which the heat output of the stove can be increased or decreased in 5% increments.

Room
In "Room" mode the heat output of the stove cannot be changed and is regulated by the electonic control. You do not need to worry about whether the stove heats up or not, the Rika room thermostat takes care of this depending on the prevailing temperature in the room.

Auto Mode
In "Auto" mode you have the additional possibility of calling up the set comfort temperature for two pre-set heating times each day or weeks automatically. In the time periods between the heating times a low temperature that you set is maintained.

The heat output of the stove is regulated by the Rika room sensor.

Simple Heating Operation – Easy Mode – The First Steps Software Version 1.32
Your stove is in simple heating mode EASY OFF when delivered in order to ease your start in the world of RIKA pellet stoves. The heat output of the stove can be increased or reduced in 5 % increments in this mode. As soon as the stove is connected to the socket, the standard display EASY OFF appears. The message "CHECK" appears in the display as soon as your pellet stove is connected to the power supply (even after a power failure). The display buttons are disabled for approx. 10 seconds as the stove conducts an initialisation of all components. When "CHECK" disappears from the display the stove can be started up. This procedure only occurs in the "EASY" and "HEAT" mode.



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Easy Off – Inactive State

Key	Display	Description
	EASY OFF	Standard display for stove switched off in simple heating mode. The output can also be regulated between 30% and 100% with the stove switched off (EASY 30 – EASY 100).
+	EASY 45	Pressing + increases output by 5%
—	EASY 35	Pressing — decreases output by 5%

Start – Ignition Process

The ignition process may take approx. 5 – 8 minutes until the first flame is visible (depending on how clean the fire crucible is).
If the 1st ignition attempt is unsuccessful, a 2nd attempt is started automatically. This may occur if the screw conveyor is not completely full during the ignition process (e.g. first start after refilling empty container).

Please observe:
In the event of false start, completely empty fire trough and dispose of unburned pellets and ash. Never replace unburned pellets from the fire pot in the supply container.
FIRE HAZARD DUE TO RESIDUAL EMBERS.

Key	Display	Description
⏻	IGNITE START EASY 35	Pressing ⏻ starts the unit. This is shown by IGNITE in the display; this is replaced by START after a brief time. EASY xx appears in the display after the start phase (xx stands for a value between 30% and 100%, depending on output)

If switching off occurs again 50 sec. within switching on (⏻ key) (at least 2 sec. ⏻ key), the pellet stove returns to inactive status.

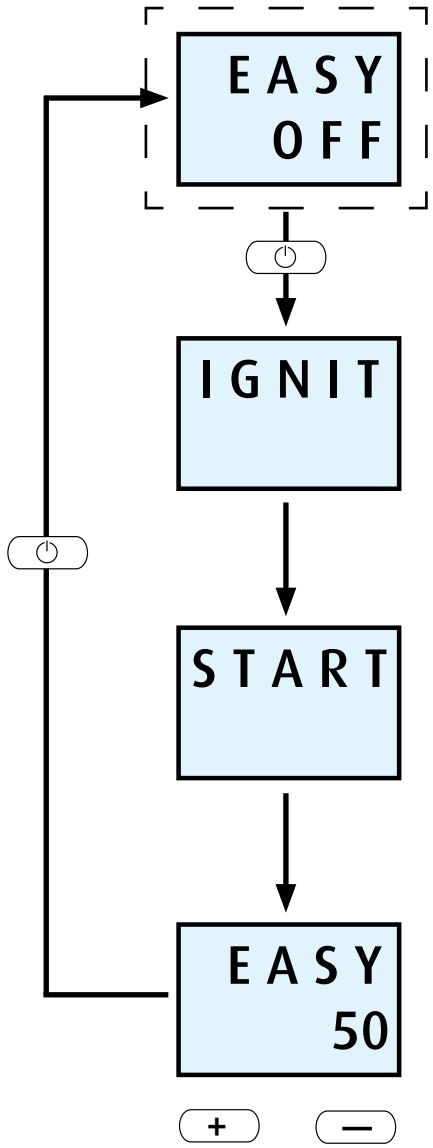
If switching off occurs during the ignition process (IGNIT or START) (at least 2 sec. ⏻ key), IGNIT OFF or START OFF appears in the display and the burn-out phase is initiated (duration approx. 10 min).

Easy 40 – Operation

Key	Display	Description
	EASY 40	Standard display for stove switched on in simple heating mode. (40 is the output in %)
+	EASY 45	Pressing + increases output by 5%
—	EASY 40	Pressing — decreases output by 5%

Easy 40 – Switch Off

Key	Display	Description
⏻	STOP EASY OFF	Pressing ⏻ initiates the burn-out phase. The unit switches off after completion of the burn out phase.



Change heat output by pressing the + or – key (change in 5 % increments)

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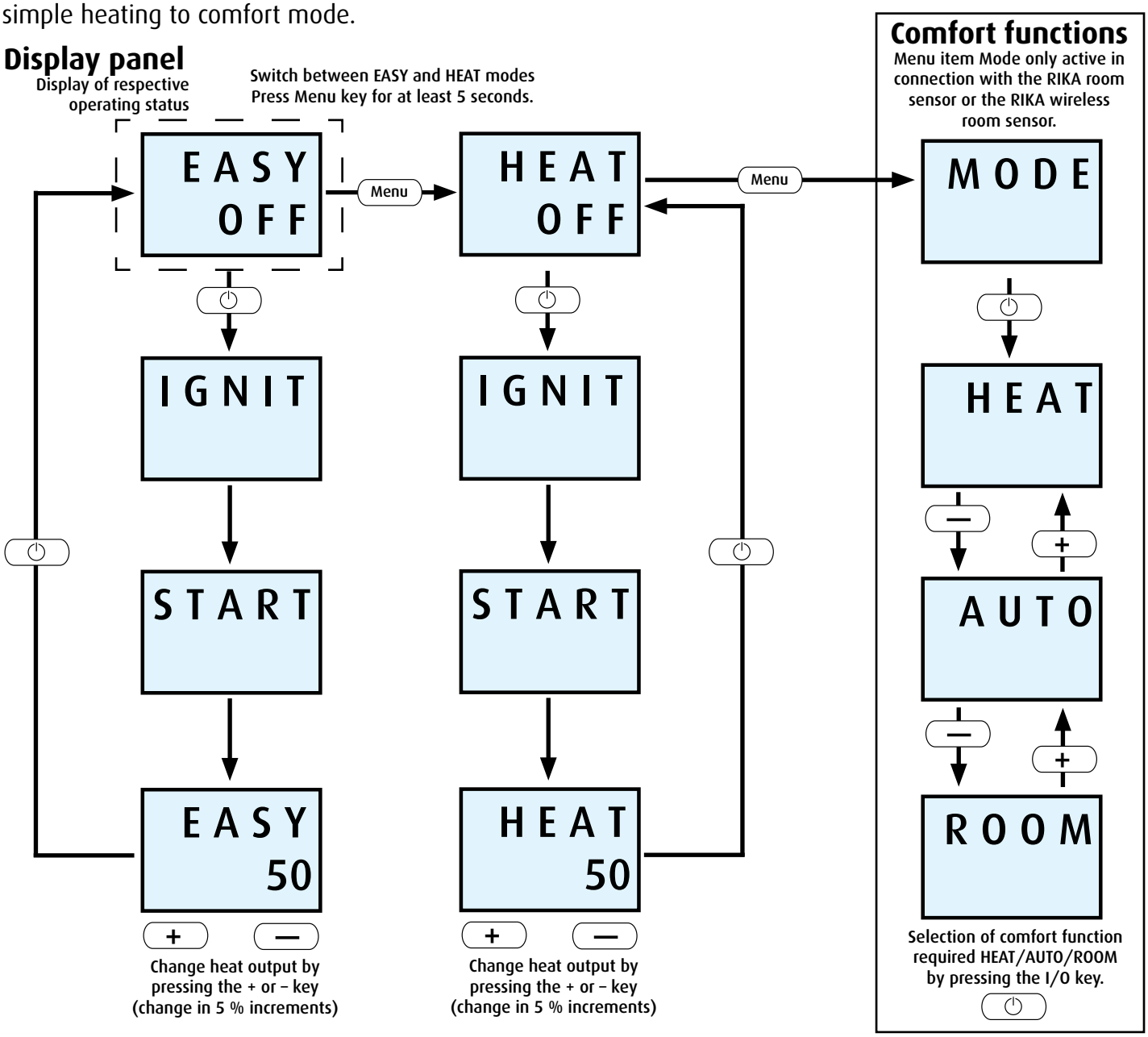
Extended Heating Operation – Heat Mode – Comfort Functions

In addition to the basic functions of simple heating operation, the RIKA pellet stove provides extra comfort functions. However, before you can use the comfort functions such as frost protection, installation of an external room thermostat, regulation of the stove mobile telephone, child safety device, you have to change from simple heating to comfort mode.


Display panel
Display of respective operating status
Switch between EASY and HEAT modes
Press Menu key for at least 5 seconds.
Comfort functions
Menu item Mode only active in connection with the RIKA room sensor or the RIKA wireless room sensor.
EASY OFF
Menu
HEAT OFF
Menu
MODE
IGNIT
IGNIT
HEAT
START
START
AUTO
EASY 50
HEAT 50
ROOM
+
—
Change heat output by pressing the + or – key (change in 5 % increments)
Change heat output by pressing the + or – key (change in 5 % increments)
Selection of comfort function required HEAT/AUTO/ROOM by pressing the I/O key.

Key	Display	Description
	EASY OFF	Standard display for stove switched off in simple heating mode.
Menu		Pressing Menu for at least 5 seconds changes to HEAT mode. The change is also shown in the display as confirmation.
	HEAT OFF	Standard display for stove switched off in extended heating mode. (comfort functions can now be selected)
Menu		Pressing Menu once changes to display MODE
	MODE	You can select one of three possible stove comfort functions. (the menu item Mode is only active in connection with the RIKA room sensor or the RIKA wireless room sensor).
⏻		Pressing ⏻ once takes you to the comfort function selection and you can change between the individual comfort functions using keys + and — .
⏻	HEAT AUTO ROOM	Pressing ⏻ again confirms the comfort function currently visible HEAT, AUTO or ROOM.

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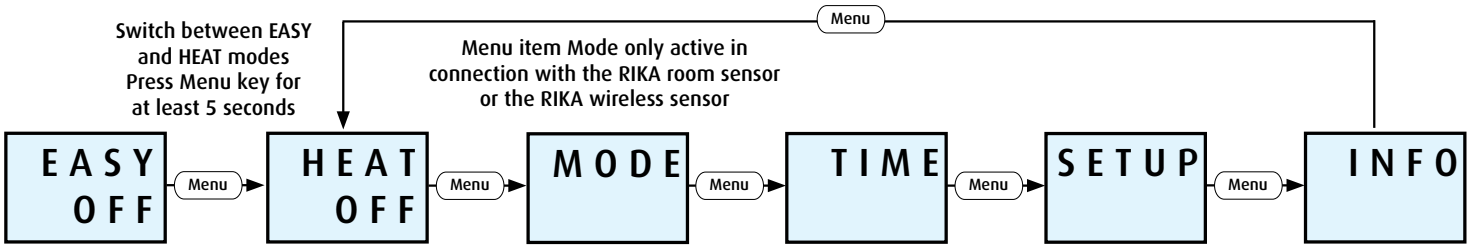
Menu Structure and Main Menu Level Software Version 1.32



Key	Display	Description
	EASY OFF	Standard display for stove switched off in simple heating mode.
Menu		Pressing Menu for at least 5 seconds changes to HEAT mode. The change is also shown in the display as confirmation.
	HEAT OFF	Standard display for stove switched off in extended heating mode.
Menu		Pressing Menu once changes to display MODE
	MODE	You can select one of three possible stove comfort functions. (The menu item Mode is only active in connection with the GSM option, the RIKA room sensor and/or the RIKA wireless room sensor active, also see “Extended heating operation – comfort functions”).
Menu		Pressing Menu once changes to display TIME
	TIME	Settings regarding the time are made here. (Heating time is only available with RIKA room sensor or RIKA wireless room sensor).
Menu		Pressing Menu once changes to display SETUP
	SET UP	All the additional functions can be regulated here.
Menu		Pressing Menu once changes to display INFO
	INFO	Access to information menu, various system parameters, temperatures and operating information can be called up here.
Menu		Pressing Menu once changes to display HEAT OFF
	HEAT OFF	Standard display for stove switched off in extended heating mode.
Menu		Pressing Menu for at least 5 seconds changes to EASY mode. The change is also shown in the display as confirmation.
	EASY OFF	Standard display for stove switched off in simple heating mode.

Pressing ⏻ once on the respective main menu items MODE, TIME, SETUP and INFO selects the submenu items.

The individual main menu items TIME, SETUP and INFO are explained in more detail on the next pages.

The menu navigation described above remains the same during operation. The respective heat output set is shown in the display instead of EASY OFF or HEAT OFF. For example EASY 30 or HEAT 30.

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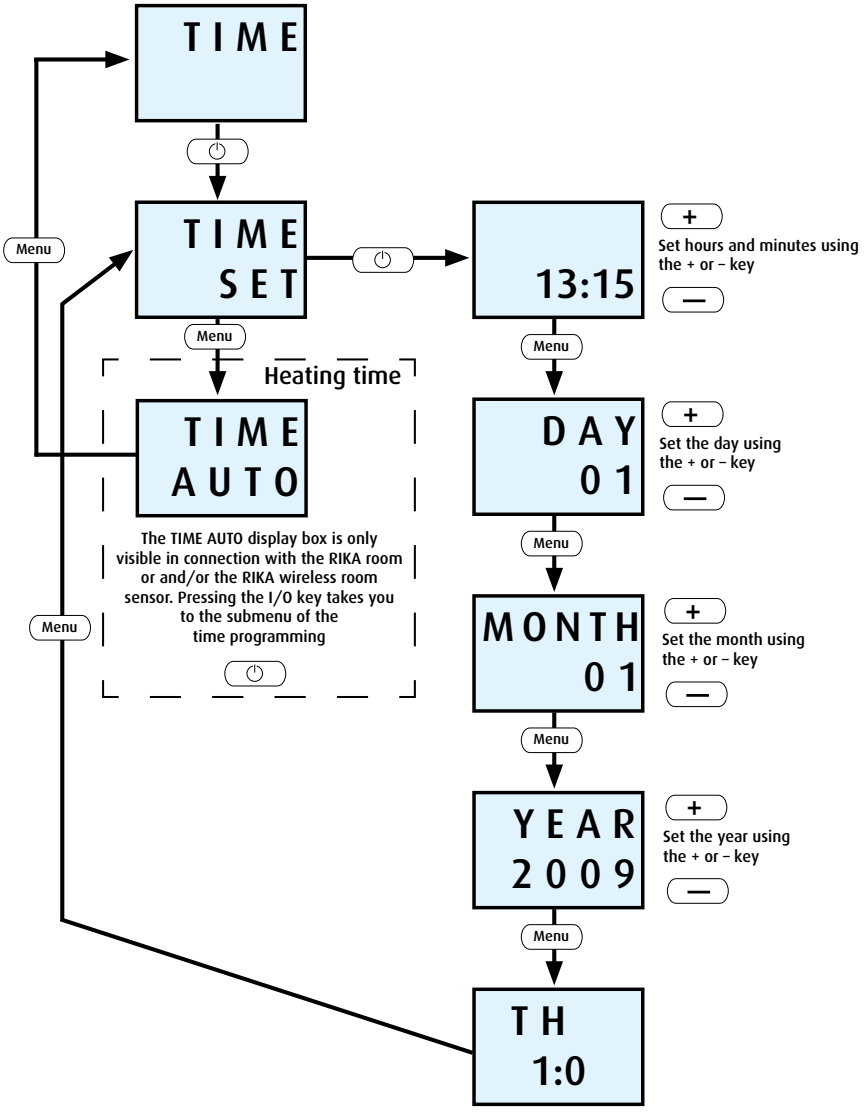
Main Menu Time – Time Adjustment Software Version 1.32


TIME
TIME SET
13:15
Set hours and minutes using the + or – key
Menu
Heating time
TIME AUTO
The TIME AUTO display box is only visible in connection with the RIKA room or and/or the RIKA wireless room sensor. Pressing the I/O key takes you to the submenu of the time programming
DAY 01
Set the day using the + or – key
MONTH 01
Set the month using the + or – key
YEAR 2009
Set the year using the + or – key
TH 1:0

ATTENTION:
Summer and winter time is not changed automatically.

Key	Display	Description
	TIME	Display to enter the control level for time adjustment.
⏻	TIME SET	All the settings concerning time, date and heating time (optional) are made here.
⏻	00:00	Setting the time. Hour display is changed using + , minute display using — .
Menu	DAY 01	Setting the day. Display is changed using + and — .
Menu	MONTH 01	Setting the month. Display is changed using + and — .
Menu	YEAR 2009	Setting the year. Display is changed using + and — .
Menu	TH 1:0	The actual day is shown in the display as confirmation.
Menu	TIME SET	Back to TIME SET.
(Menu)	(TIME) (AUTO)	(Setting the heating times. The menu item TIME AUTO only appears in connection with the RIKA room sensor and the RIKA wireless room sensor). (Please see the operating instruction enclosed for the option for setting the heating times).
Menu	TIME	Back to TIME.
Menu		Repeated pressing of Menu returns you to the main menu level.

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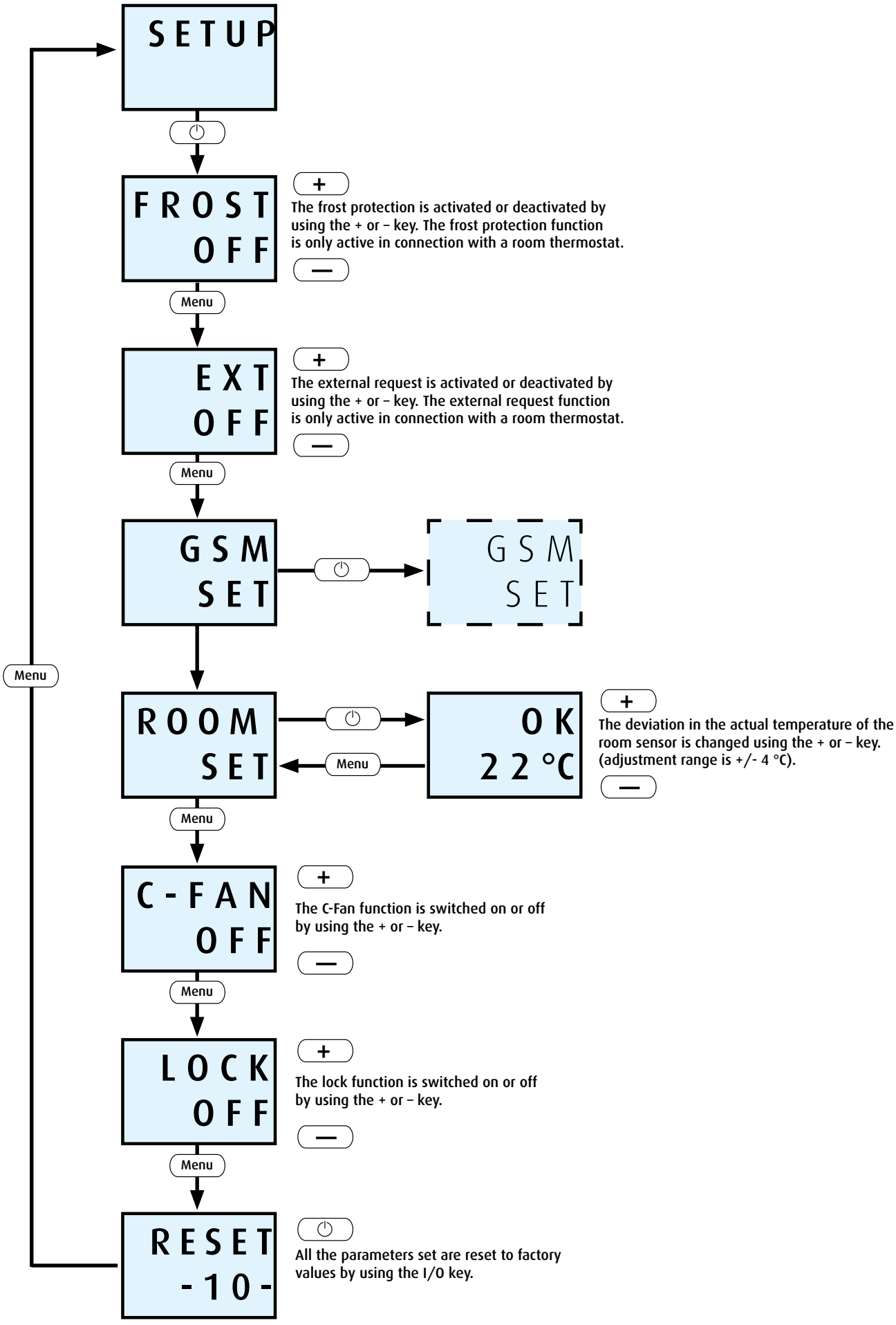
Main Menu Setup – Additional Functions Software Version 1.32


SETUP
FROST OFF
+
The frost protection is activated or deactivated by using the + or – key. The frost protection function is only active in connection with a room thermostat.
–
Menu
EXT OFF
+
The external request is activated or deactivated by using the + or – key. The external request function is only active in connection with a room thermostat.
–
Menu
GSM SET
GSM SET
Menu
ROOM SET
OK 22 °C
Menu
+
The deviation in the actual temperature of the room sensor is changed using the + or – key. (adjustment range is +/- 4 °C).
–
Menu
C-FAN OFF
+
The C-Fan function is switched on or off by using the + or – key.
–
Menu
LOCK OFF
+
The lock function is switched on or off by using the + or – key.
–
Menu
RESET -10-
All the parameters set are reset to factory values by using the I/O key.

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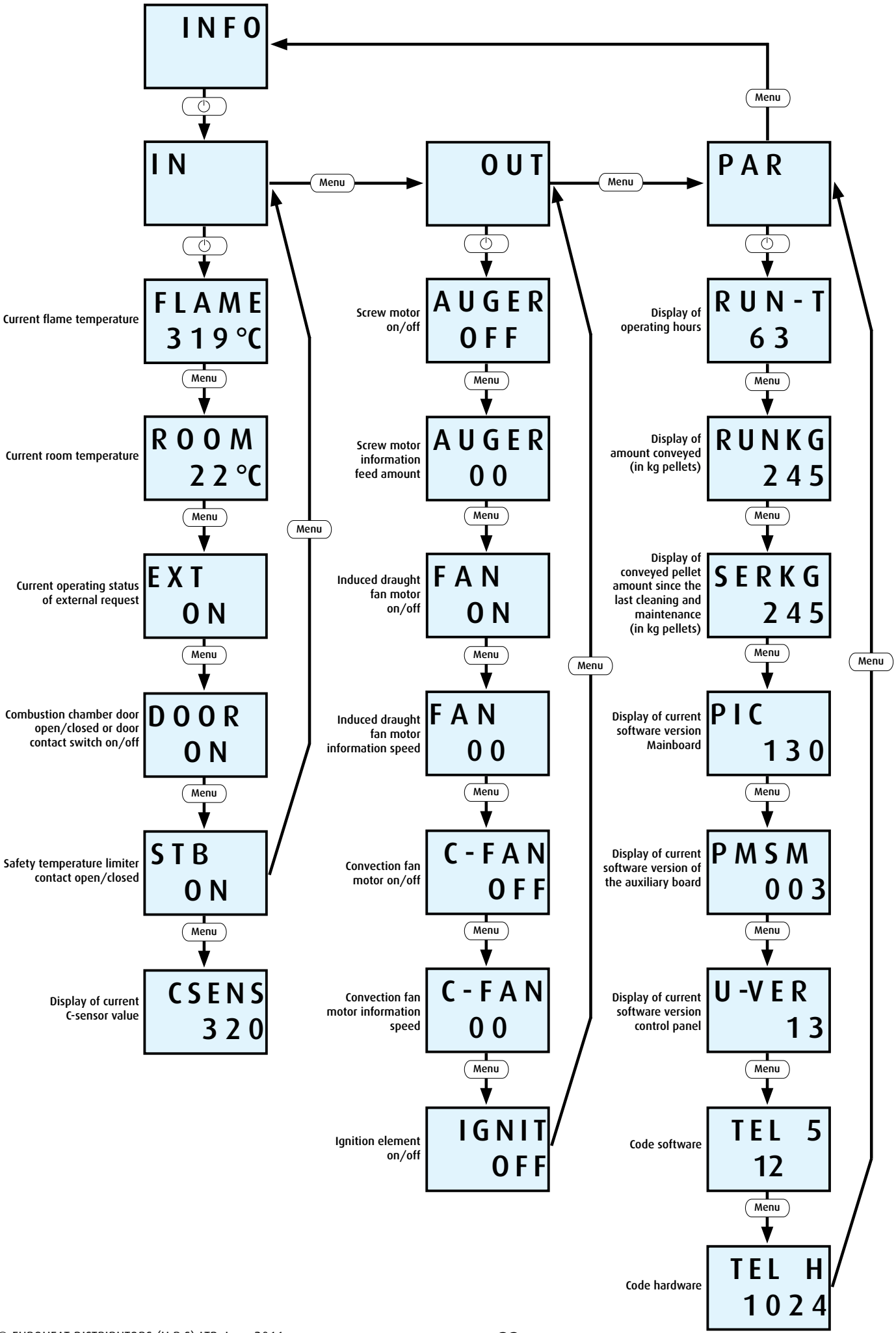
Main Menu Setup – Additional Functions Software Version 1.32

Key	Display	Description
	SETUP	Display to enter the control level for additional functions. You can change between the operating status On (active) and OFF (inactive).
⏻	FROST OFF	Display of operating status of additional function FROST, frost protection (only in connection with RIKA room sensor and RIKA wireless room sensor). Using + and — you can switch between FROST OFF (inactive) and FROST ON (active). Frost protection is only active in combination with the comfort functions HEAT OFF, ROOM OFF and AUTO OFF. Starting temperature 8°C, stopping temperature 13°C.
Menu	EXT OFF	Display of operating status of additional function EXT external unit such as e.g. a customary room thermostat (see comfort function – external room thermostat, page 53 for more information). Using + and — you can switch between EXT OFF (inactive) and EXT ON (active).
Menu	GSM SET	All settings concerning telephone option – GSM are made here. Pressing ⏻ takes you to the submenu of telephone option – GSM. Please see the operating instructions accompanying the telephone option – GSM for settings.
Menu	ROOM SET	The room temperature displayed may deviate from the actual temperature and therefore the sensor may be calibrated by +/- 4°C. Thus the actual temperature of the room sensor can be adjusted e.g. to the house thermometer.
Menu	C-FAN OFF	Display of operating status of option transverse current fan. Using + and — you can switch between C-FAN OFF (inactive) and C-FAN ON (active).
Menu	LOCK OFF	Display of operating status of additional function LOCK child safety device (key lock). Using + and — you can switch between LOCK OFF (inactive) and LOCK ON (active). To lock the keyboard with active child protection device (LOCK ON), press + and — at the same time for at least 5 seconds in the standard mode EASY or HEAT. LOCK appears in the display as confirmation. To unlock the keyboard again press + and — at the same time for at least 5 seconds. LOCK OFF appears in the display as confirmation.
Menu	RESET -I:0-	Any settings changed can be reset to the delivery status here. Pressing ⏻ resets the stove to the factory settings.
Menu	SETUP	Display to enter the control level for additional functions. You can change between the operating status On (active) and OFF (inactive).
Menu		Repeated pressing of Menu returns you to the main menu level.

Main Menu Info – Additional Functions Software Version 1.32



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Main Menu Info – Additional Functions Software Version 1.32

Key	Display	Description
	INFO	Access to information menu, various system statuses, temperatures and operating information can be called up here.
⏻	IN	INFORMATION INPUTS
⏻	FLAME 319	Display of current flame temperature.
Menu	ROOM 22	Display of current room temperature.
Menu	EXT ON	Display of status of external release. (ON or OFF)
Menu	DOOR ON	Display of the status of door contact. (ON or OFF)
Menu	STB ON	Display of the status of safety temperature limiter. (ON or OFF)
Menu	CSENS	Display of the current C-sensor value
Menu	IN	INFORMATION INPUTS
Menu	OUT	INFORMATION OUTPUTS
⏻	AUGER OFF	Display of operating status of screw motor. (ON or OFF)
Menu	AUGER 00	Display of actual push-in rate.
Menu	FAN ON	Display of operating status of flue gas blower. (ON or OFF)
Menu	FAN 00	Display of speed of flue gas blower.
Menu	C-FAN ON	Display of the operating status of the cross-flow fan. (ON or OFF)
Menu	C-FAN 00	Display of the speed of the cross-flow fan.
Menu	IGNIT OFF	Display of operating status of ignition element. (ON or OFF)
Menu	OUT	INFORMATION OUTPUTS
Menu	PAR	INFORMATION PARAMETER
⏻	RUN – T 63	Display of previous total operating hours.
Menu	RUNKG 245	Display of total pellet amount supplied up to present.
Menu	SERKG 245	Display of conveyed pellet amount since the last cleaning and maintenance. (chapter 10 cleaning and maintenance)
Menu	MEMO 130	Display of current software version loaded on control board. (marquee)
Menu	PMSM-VER 003	Display of the current software version of the auxiliary board. (Scrolling text)
Menu	U-VER 13	Display of current software version loaded on control unit.
Menu	TEL S 12	Coding software
Menu	TEL H 1024	Coding hardware
Menu	PAR	Repeated Menu pressing of returns you to the main menu level.

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Options

We should like to point out that auxiliary equipment connected to RIKA interface connections and external connection plugs should only be fitted by authorized personnel.

Rika Room Sensor – Rika Wireless Room Sensor

This option permits control of your pellet stove via a room temperature. You can set both the room temperature and the heating times required. A reducing temperature selected by you is observed during the heating times. Please see the operating instructions for the option RIKA room sensor and RIKA wireless room sensor for more detailed information.

Telephone Option – GSM

Your pellet stove can also be started via a mobile phone as an additional option. This can be achieved by the installation of a GSM modem.

After the installation of the module and activation of the function in the Setup menu the stove can be started and switched off with a command SMS.

In addition, it is possible to switch the stove to another operating state using SMS. It is important that only a Siemens Modem TC 35iT and mains plug and receiver are used. This is now sold as a complete module. On receipt of the necessary SIM card ensure that incoming messages are saved on the inserted SIM card and not on the modem.

Before inserting the SIM card into the modem you must deactivate the PIN request, preferably using a mobile telephone authorised by the card supplier.

On the stove itself a four-figure freely selectable input code must be entered. The reception code prevents unauthorised access to the modem. Successful switching on and off of the heating device is acknowledged by a confirmation SMS.

For this application we recommend the purchase of a prepaid SIM card as no contract is required and experience shows that the outlay is very low. The user should, however, top up the card regularly otherwise it will expire after a certain period.

Please see the operating instructions for the telephone option – GSM for more detailed information.

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Electric Ignition

The pellet furnace is fitted with an electric ignition. This starts to function together with the stove start program. Ignition duty cycle: Approx. 6 min.

Emergency Operation – Heating Up Without Electrical Ignition

If the ignition cartridge of the unit fails, emergency operation may be performed using fire lighters.
Place a handful of pellets with the fire lighter in the cleaned fire trough, ignite them and then close the combustion chamber door. Pressing the key ⏻ starts the stove.

CAUTION: Do not use flammable liquids to preheat the stove.

Some Field Values

Pellet consumption depends on the size of the pellets. The larger the pellets the slower the feed and vice versa.

A full pellet container will suffice approximately 11 hours at an output of 100% and approximately 40 hours at an output of 30%.
(variations are possible in case of pellet quality).

Fuel Addition

CAUTION when filling the stove with pellets.

Do not touch the hot stove with the pellet sack.

Remove any pellets that have not been put in the storage container immediately.

To prevent the fire from going out due to lack of fuel, we recommend that an adequate filling level is kept in the storage container. Check the filling level often. The container lid should however always be kept closed unless the container is being filled. Pellet container capacity (see “Technical data”).

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Cleaning and Maintenance

Basic Information

Your stove must be switched off and have cooled down before carrying out any maintenance activities. See Operation for the appropriate information on shutting the respective operating modes down.

NOTE:
SERVICE appears in the display after consumption of 700 kg pellets. Cleaning and maintenance is to be performed.
The message can be acknowledged by pressing ⏻ key (for at least 2 seconds), and operation may be continued.

CAUTION:
Only carry out maintenance when the mains plug of the stove has been removed from the socket.

The frequency with which your stove must be cleaned as well as the maintenance intervals depends on the fuel you use. High moisture contents, ash, dust and chips can more than double the necessary maintenance intervals. We would like to point out once again that you should only use tested and recommended wooden pellets as a fuel.

Wood as a fertiliser
Wood mineral percentages remain in the combustion chamber as ash. This ash is a natural product and is an excellent fertiliser for all plants in the garden. However the ash should be aged first and "quenched" with water.

CAUTION:
Embers can be hidden in the ash – only fill into metal containers.

Control Handle Front Door

Your new pellet stove comes with an operating handle that is used for opening or closing the combustion chamber door.

Cleaning the Pellet Crucible

NOTE: Clean the fire crucible daily.

The fire pan should be looked at to ensure that ash or clinker does not block the air feed openings. The fire pan can easily be cleaned inside the stove. After removing the pan the area underneath can be vacuumed clean (see picture).

If the stove is heated in continuous operation, it must be switched off twice within 24 hours and the crucible must be cleaned. (Burnback hazard)

Note:

Only clean when cold, when embers are extinguished.
Check the crucible is positioned properly.

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Cleaning the Combustion Chamber Door Glass

The viewing window becomes coated in the case of solid fuels, particularly with the very fine ash of wood pellets, light or dark depending on the pellet quality (especially with low output). The glass can be cleaned best with a moist cloth. Stubborn dirt can be removed with a special cleaner available from your stove dealer.

Cleaning the Flues

The flue pipes should be cleaned at least twice a year or after approx. 700 kg pellets. The flue ducts are located at the sides next to the combustion chamber (see picture below):

Dismantle the side casing panels
(see section "Dismantling the casing panel")

Undo the wing nut and pull back the flame temperature sensor holder.

The flame temperature sensor (part 23) can now be removed from the cast cover (part 5).

When the flame temperature sensor has been removed you can lift off the cast cover. Please watch your fingers when doing this.

Clean the left and right-hand flue gas outlets on the combustion chamber side by using the soot brush.

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Cleaning the Flue Manifold

The flue main duct should be cleaned at least twice a year or after approx. 700 kg pellets.
The heating flue is located in the bottom of the combustion chamber (see picture below)

Open the combustion chamber door.

Remove the lower front casing panel
(depending on version, part 43/57/59)

Disassemble the cleaning opening (part 6) by opening the two outer hexagonal head screws.

Vacuum the combustion remains from the manifold channel.

Fit the parts in the reverse order again. Attention must be paid to a tight fit.

Your stove may suck in false air via incorrectly sealed cleaning covers; this air may lead to incomplete combustion and thus piling up of pellets to the chute.
(Burnback hazard)

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Cleaning the Flue Gas Fan

This maintenance procedure should be carried out at least twice a year or after approx. 700 kg pellets.
In order to inspect the flue gas fan and to clean it, remove four screws (part 10, page 4) and pull the flue fan motor out of the housing carefully. Remove the flue dust from the fan and flue gas outlets using a vacuum cleaner. When closing care must be taken that there are no leaks.

Note:
All motors have sealed ball bearings. Lubrication is not required.

To clean the flue tube connection, pull the flue tube off the flue gas blower and suction the flue gas blower casing out.

Cleaning the Pellet Container

Do not fill the container up again immediately but remove residues (dust, chips etc.) from the empty container using a vacuum cleaner. If your vacuum cleaner will not fit through input protection cover remove the left upper cover. You will now be able to clean the container without difficulty.
(The stove must be disconnected from the power supply).

Inspecting the Door Seal

The state of the seals on the doors and glass should be checked at least once a year.
Replace the seal if showing any signs of wear.

Checking the Chimney Connection

Inspect and clean the connection. The collected flue dust can have a negative effect on the stove performance and represent a safety risk.

Malfunctions – Causes – Solutions

If a malfunction occurs, the main menu is switched to and the malfunction is displayed in marquee. The malfunction is acknowledged by pressing ⏻ for at least 2 seconds.

Display	Malfunction designation	Cause/remedy
STB >I/O<	Safety temperature limiter is activated	Establish cause of activation; eliminate this and reset using reset button directly at STB. The error message must then also be acknowledged. Only with cooled stove.
NO PELLETS >I/O<	No pellets in container	May also occur on first start (first filling). Check whether there are sufficient pellets in the container and re-start unit after acknowledging malfunction. - Screw conveyor blocked - Flame sensor sleeve dirty - Chimney draught too great
FAN DEFECT >I/O<	Flue gas blower defective	Acknowledge the error message. If it occurs repeatedly, contact your local service agent.
FLAME SENSOR DEFECT >I/O<	Flame sensor defective	Acknowledge the error message. If it occurs repeatedly, contact RIKA's customer service department.
ROOM SENSOR SIGNAL LOST >I/O<	Rika room sensor reception defective	Transmission between the transmitter and receiver has been lost. If the error message appears again immediately after re-starting the device, it means either the battery is flat or the component is defective. If the component is defective, contact your local service agent.
SERVICE >I/O<	Pellet amount for cleaning and maintenance exceeded	Acknowledge the message and conduct cleaning or maintenance procedures.
CALL SERVICE >I/O<	Pellet backlog	Overfilling of the combustion cavity with a subsequent backlog of pellets in the drop chute has been detected. The error message can be acknowledged by pressing the Menu and — button simultaneously (held until the error message disappears). If this occurs it is imperative you inform your local service agent.
C-SENSOR DEFECT >I/O<	C-sensor defective or not recognised	The C-SENSOR DEFECT message must not be acknowledged. Remove the mains plug for approx. 1 min. when the error message is displayed. If the fault occurs again after re-connecting the stove to the power supply, contact your local service agent. The stove can no longer be operated.
DOOR OPEN >I/O<	Door open	Check to make sure the door is closed and that the door contact switch engages. (The DOOR OPEN message doesn't need to be acknowledged; the display will disappear when the door is closed.)
AUGER-PMSM DEFECT >I/O<	Screw motor defective	Acknowledge the error message. If it occurs repeatedly, contact your local service agent.

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Problem
Fire burns with weak, orange flame. Pellets heap up in fire crucible, window sooted up.

Cause(s):
1. Insufficient combustion air

Possible solutions:
1. Check correct positioning of fire crucible in holder – fire crucible must be positioned tightly in the holder.

2. Remove any ash or clinker from the fire crucible that may block the air inlets, change to a better pellet quality is possible.

3. Check whether flue gas pipes are blocked with ash (see section on “Cleaning and Maintenance”).

4. Check whether air inlet duct or flue pipe is blocked.

5. Check door seal and cleaning cover seal for leaks.

6. Clean blower wheel.

7. Have service performed by authorised specialist company.

Please note that checks on the control system and wiring may only be performed with the stove turned off. Any repairs may only be performed by trained specialists.

If a malfunction message occurs, the cause must first be remedied; the unit can be put back into operation by acknowledging the malfunction using **.**

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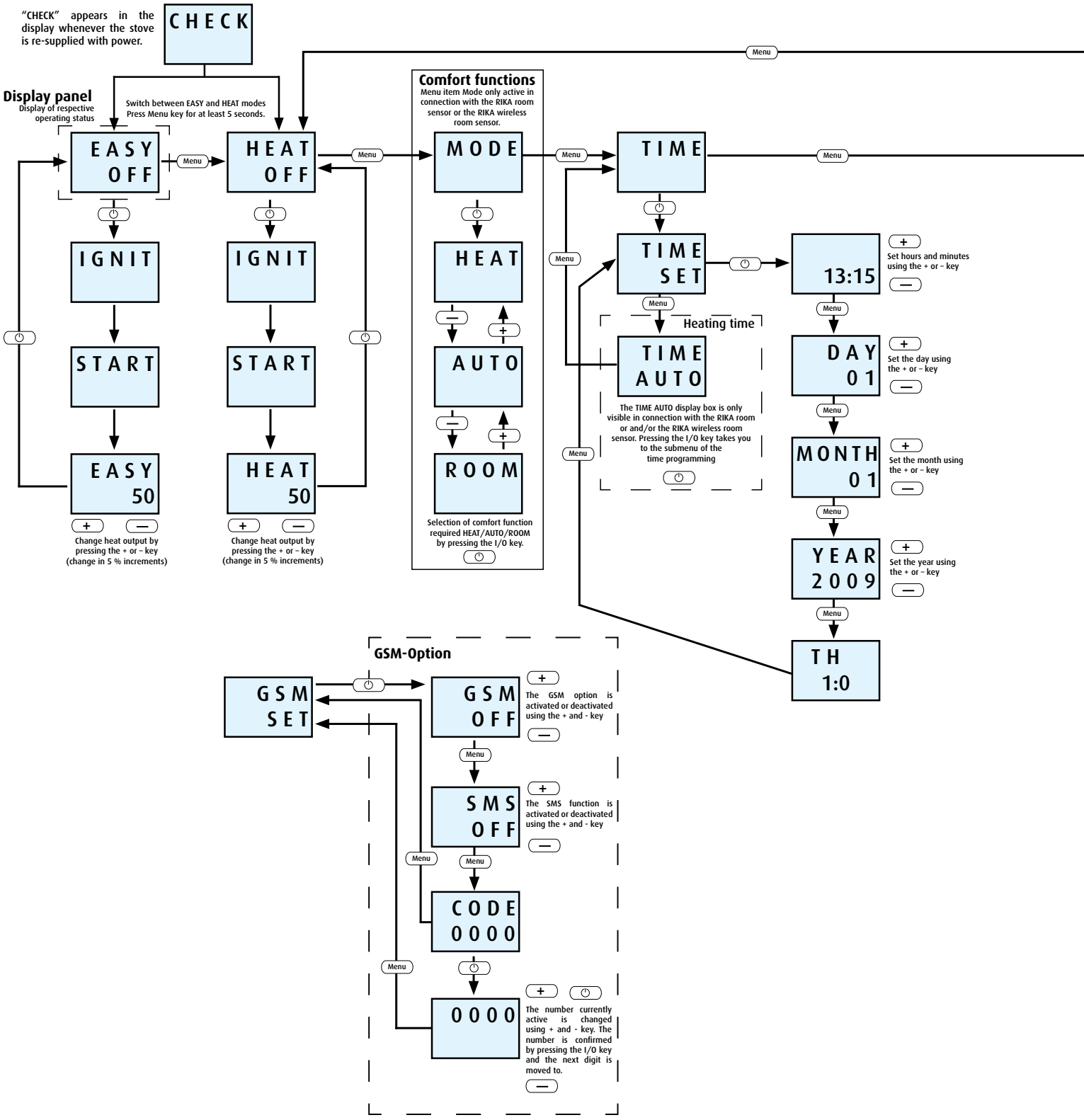
Menu Navigation – Overall View Software Version 1.32


"CHECK" appears in the display whenever the stove is re-supplied with power.
CHECK
Display panel
Display of respective operating status
Switch between EASY and HEAT modes
Press Menu key for at least 5 seconds.
EASY OFF
HEAT OFF
Menu
IGNIT
START
EASY 50
HEAT 50
Change heat output by pressing the + or – key (change in 5 % increments)
Comfort functions
Menu item Mode only active in connection with the RIKA room sensor or the RIKA wireless room sensor.
MODE
HEAT
AUTO
ROOM
Selection of comfort function required HEAT/AUTO/ROOM by pressing the I/O key.
TIME
TIME SET
13:15
Set hours and minutes using the + or – key
Heating time
TIME AUTO
The TIME AUTO display box is only visible in connection with the RIKA room or and/or the RIKA wireless room sensor. Pressing the I/O key takes you to the submenu of the time programming
DAY 01
Set the day using the + or – key
MONTH 01
Set the month using the + or – key
YEAR 2009
Set the year using the + or – key
TH 1:0
GSM-Option
GSM SET
GSM OFF
The GSM option is activated or deactivated using the + and - key
SMS OFF
The SMS function is activated or deactivated using the + and - key
CODE 0000
0000
The number currently active is changed using + and - key. The number is confirmed by pressing the I/O key and the next digit is moved to.

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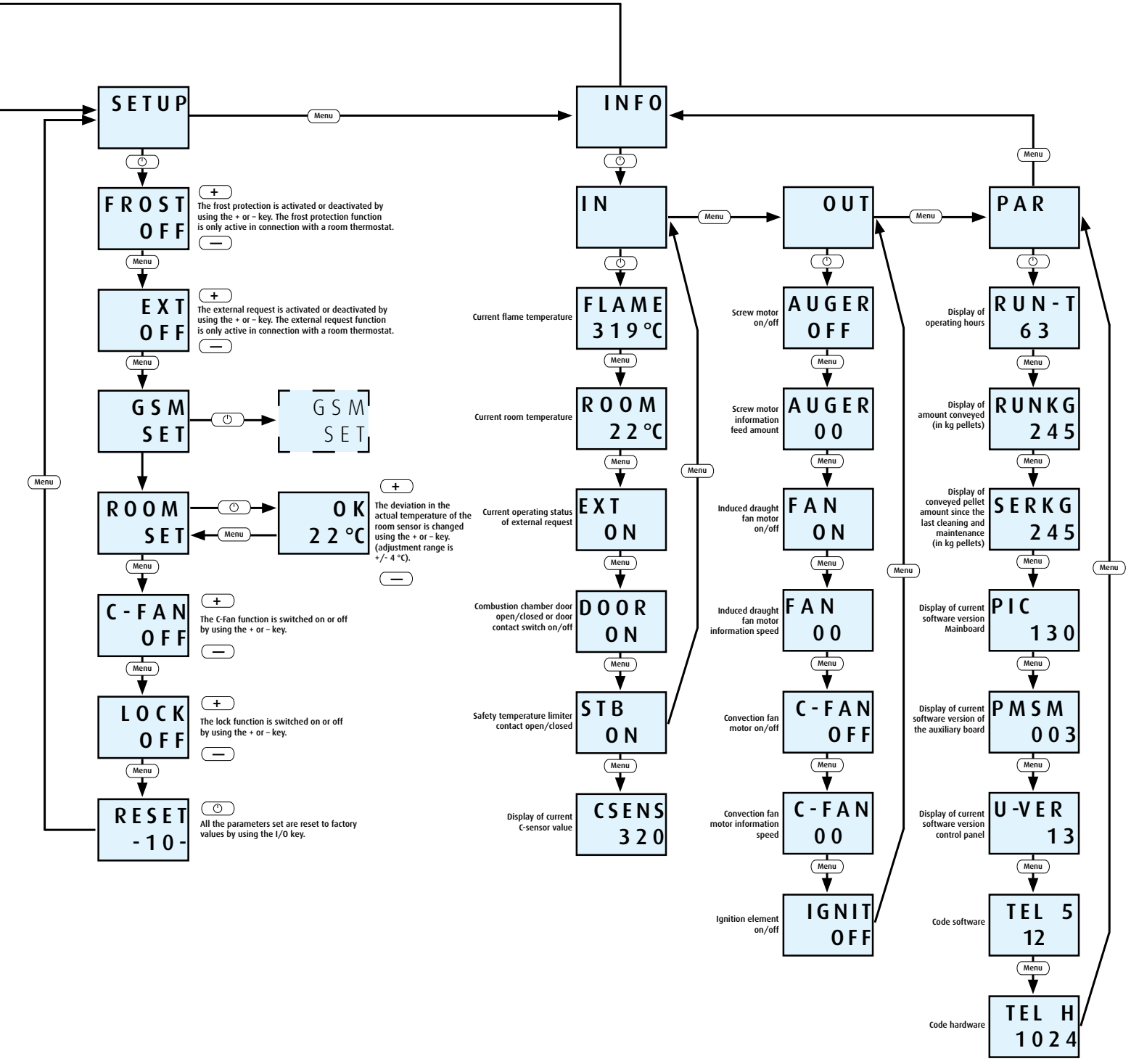
SETUP
Menu
INFO
FROST OFF
+
The frost protection is activated or deactivated by using the + or – key. The frost protection function is only active in connection with a room thermostat.
—
EXT OFF
+
The external request is activated or deactivated by using the + or – key. The external request function is only active in connection with a room thermostat.
—
GSM SET
GSM SET
ROOM SET
OK 22 °C
+
The deviation in the actual temperature of the room sensor is changed using the + or – key. (adjustment range is +/- 4 °C).
—
C-FAN OFF
+
The C-Fan function is switched on or off by using the + or – key.
—
LOCK OFF
+
The lock function is switched on or off by using the + or – key.
—
RESET -10-
All the parameters set are reset to factory values by using the I/O key.
IN
OUT
PAR
FLAME 319 °C
Current flame temperature
ROOM 22 °C
Current room temperature
EXT ON
Current operating status of external request
DOOR ON
Combustion chamber door open/closed or door contact switch on/off
STB ON
Safety temperature limiter contact open/closed
CSENS 320
Display of current C-sensor value
AUGER OFF
Screw motor on/off
AUGER 00
Screw motor information feed amount
FAN ON
Induced draught fan motor on/off
FAN 00
Induced draught fan motor information speed
C-FAN OFF
Convection fan motor on/off
C-FAN 00
Convection fan motor information speed
IGNIT OFF
Ignition element on/off
RUN-T 63
Display of operating hours
RUNKG 245
Display of amount conveyed (in kg pellets)
SERKG 245
Display of conveyed pellet amount since the last cleaning and maintenance (in kg pellets)
PIC 130
Display of current software version Mainboard
PMSM 003
Display of current software version of the auxiliary board
U-VER 13
Display of current software version control panel
TEL 5 12
Code software
TEL H 1024
Code hardware

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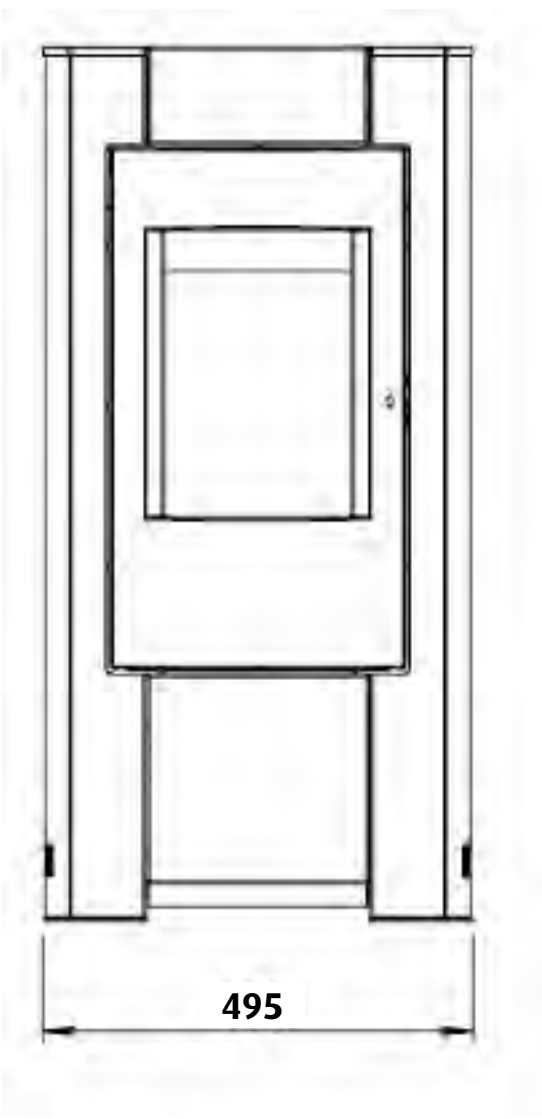
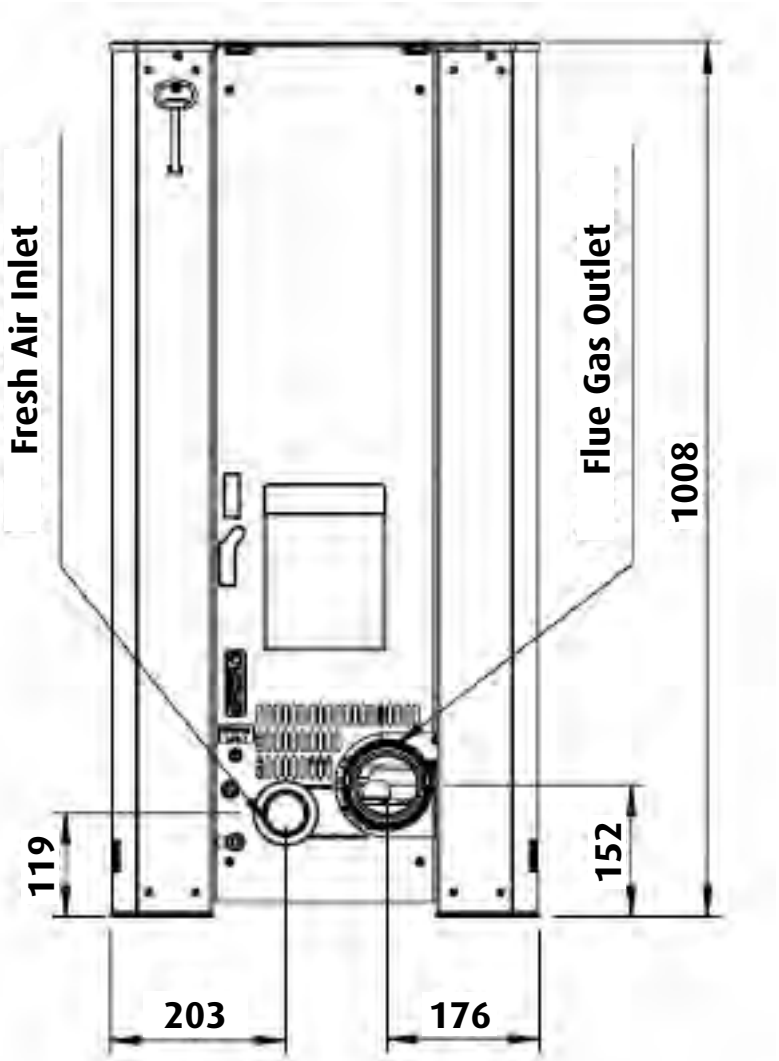
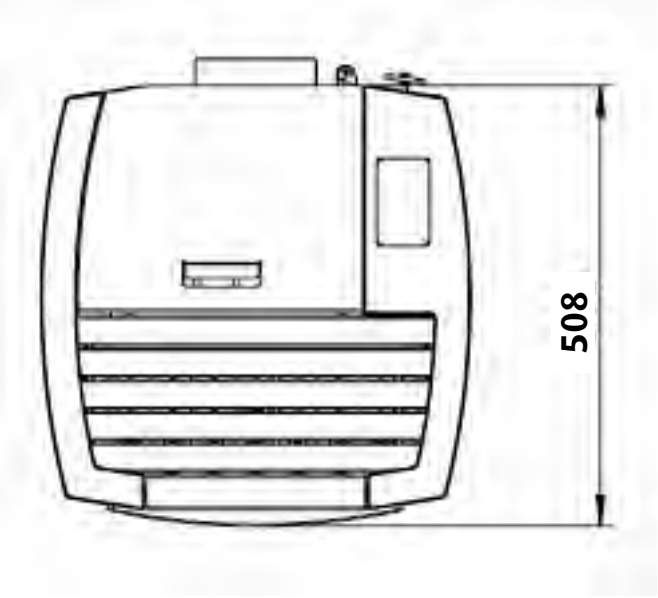
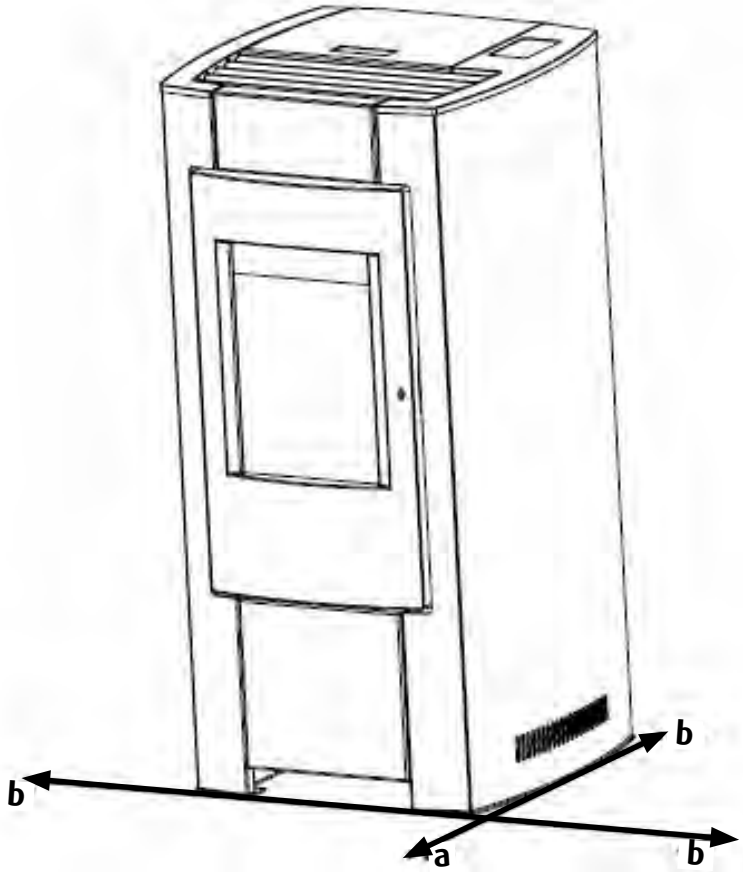
Dimensions









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Rika Warranty

Rika warranty is 5 years on the welded stove body and 2 years for other components. The warranty comprises exclusively defects in materials and manufacture.

The precondition for the warranty is that the stove has been installed and commissioned according to the Rika instructions for use valid at the time of purchase. Installation must be performed by a specialist qualified to undertake such installations.

The warranty excludes WEARING PARTS such as glass, coating, surface coatings (e.g. handles, panels), seals, fire crucible, grates, draught plates, deflector plates, combustion chamber liners (e.g. fireclay), ceramics, texture and colour of stone, ignition elements, sensors, etc.

DAMAGE arising from non-observance of the manufacturer's instruction is also excluded (e.g. overheating, use of non-approved fuels, incorrect intervention in the stove, electrical excess voltage, a chimney draught set incorrectly for the stove, non performance or deficient maintenance and cleaning, incorrect operation by the user or third parties, etc.) or caused by such.

Only use spare parts recommended or supplied by RIKA. Loss of warranty on non-observance.
Within the meaning of timely damage limitation, the WARRANTY CLAIM on the part of the claimant is to be enforced at the RIKA dealer in writing using the invoice and stating the purchase date, model name, serial number and reason for complaint.

The WARRANTY REPLACEMENT comprises delivery of spare parts free of charge.
Labour and travel times are not satisfied by the manufacturer's warranty.

Any costs (e.g. transport, repair, travel times ...) arising to the manufacturer or his agent due to unjustified warranty claims are charged to the claimant.

The warranty does not affect the statutory rights.

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